BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

***Name of Work**: Estimate for Improvements to roads and Drains at Narayanappa Layout in ward no 10 Vidyaranyapura Sub Division.*

Estimated Cost: Rs. 15.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to roads and Drains at Narayanappa Layout in ward no [illegible] Sub Division.

								Estimate Cost:	1500000.00
No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRB 3.3.1-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 152 / Item No. 19.2/ PWD SR 2013-14**	Cum							
	For Asphalting Road								
			1	150.00	5.00	0.20	150.00		
	RCC Drain								
	1st Cross		2	60.00	1.20	1.00	144.00		
	2nd Cross		2	45.00	1.20	1.00	108.00		
							402.00	90.72	**36469.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1; 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	For CC Drain								
	1st Cross		2	60.00	1.00	0.15	18.00		
	2nd Cross		2	45.00	1.00	0.15	13.50		
							31.50	4290.84	**135161.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
3	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	1st Cross		2x3	60.00		0.60	216.00		
	2nd Cross		2x3	45.00		0.60	162.00		
	Covering Slab		2	60.00	0.60		72.00		
			2	45.00	0.60		54.00		
	Covering Slab Side Walls		4	60.00		0.15	36.00		
			4	45.00		0.15	27.00		

No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							567.00	271.08	**153702.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
4	KSRB 4.2.2 : Providing and laying in position reinforcad **cement concrete of design mix M20** with OPC **cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.875cum and fine aggregates @ 0.459 cum with superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / ITem No. 4.11 PWD SR - 2013-14**	Cum							
	Bottom		2	60.00	0.90	0.15	16.20		
	Side Walls		2x2	60.00	0.15	0.60	21.60		
	Covering Slab		1	60.00	0.90	0.10	5.40		
	Bottom		2	45.00	0.90	0.15	12.15		
	Side Walls		2x2	45.00	0.15	0.60	16.20		
	Covering Slab		1	45.00	0.90	0.10	4.05		
							75.60	5639.76	**426366.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
5	KSRB 4.9.2: Providing **T.M.T steel reinforcement** for **R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46.2 PWD SR 2013-14 TMT Bars Fe 500**	Qntl							
	Consider 60 Kg/Cum		0.60	75.60			**45.36**	7450.92	**337974.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
6	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.170 / I.20.18) PWD SR - 2013-**	Cum							
			1	150.00	5.00	0.15	112.50		

Description	Unit	No.	L	B	D	Qty	Rate	Amount
						112.50	1121.04	**126117.00**
Basic Rate	1038.00							
Area Weightage @ 8%	83.04							
Total	**1121.04**							
7 KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
		1	150.00	5.00		750.00		
						750.00	10.53	**7898.00**
Basic Rate	9.75							
Area Weightage @ 8%	0.78							
Total	**10.53**							
8 KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, Page **No. 175 / Item No. 21.6/ PWD SR 2013-14**	Sqm							
		Qty Vide Item No. 07				**750.00**	44.28	**33210.00**
Basic Rate	41.00							
Area Weightage @ 8%	3.28							
Total	**44.28**							
9 KSRRB M500-18: Providing and laying **semi dense bituminous concrete** 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **With 80/100 grade bitumen, No. 178 / Item No. 21.20.1/ PWD SR 2013-14**	Cum							
		1	150.00	5.00	0.025	18.75		
						18.75	9631.44	**180590.00**
Basic Rate	8918.00							
Area Weightage @ 8%	713.44							
Total	**9631.44**							
10 KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, **No. 197 / Item No. 24.15 PWD SR 2013-14**	Sqm							

Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Road Sides		2	150.00	0.10		30.00		
	Center Line		50	1.50	0.10		7.50		
							37.50	471.96	**17699.00**
	Basic Rate	437.00							
	Area Weightage @ 8%	34.96							
	Total	**471.96**							
11	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**402.00**	72.71	**29228.00**
	Basic rate for haulage of materials as per item no.17.4 page 144) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
12	For Third Part QC Inspection Charges @ 1% of Estimate Cost								**15000.00**
13	Miscellaneous and other Charges	L/S							**586.00**
								Total	**1500000.00**

(Rs. Fifteen Lakhs Only)

CERTIFICATE:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per P.W.D S.R of 2013-14.
3. This work included under 2013-14 POW.
4. The provisions were made in this estimate are necessary and adequate.
5. This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

ADMINISTRATIVELY SANCTIONED FOR Rs 15.00 Lakhs

Rupees Fifteen Lakhs Only

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Division

Executive Engineer
Vidyaranyapura Division
Yelahanka Zone, BBMP
Bangalore - 560 092

Under

Registered as EE ( ) No 3 ...9....

Subject to conditions contained in enclosed memo EE ( ) No /91...

Dt. Estimate Administratively Sanctioned

Add Corp(y). A.S No 660/13-14

dated 23-12-13 : 15.00 Lakhs.

15.00 Lakhs

Fifteen Lakhs only.

EE/BTP/188/13-14, 23/12/13.

Registered as EE No

to conditions contained in enclosed memo.

Dated Subject

Dr.